

This invention concerns a box to house electrical, electronic and mechanical systems.

Many electrical, electronic and mechanical systems are housed in boxes necessitating more than two folding  
5 operations for their manufacture.

The box according to the invention comprises six faces. It is characterised by the fact that all of these faces are constituted by two plates or sheets each folded once only and assembled. The fold obtained on each plate  
10 or sheet forms a curve which constitutes one of the six faces, giving two curved faces and four faces which may be flat.

According to specific modes of production:

- the two plates or sheets can be assembled by  
15 brackets and means of attachment, by gluing or by welding depending on the material used, or by slides fitted inside one of the two plates or sheets.

- if a closed box with joined outer walls is required, one of the two plates or sheets may comprise  
20 two edges cut in a curved way so that these two edges are surrounded by the fold of the second plate or sheet when they are assembled.

- the two plates or sheets may have holes made in them to accommodate surface or internal components  
25 depending on the required applications.

The appended drawings illustrate the invention according to a mode of production:

Figure 1 shows in a perspective view one of the two plates or sheets comprising two edges cut in a curved  
30 way.

Figure 2 shows in a perspective view the second plate or sheet.

Figure 3 shows in a perspective view the box formed by the assembly of the two plates or sheets.

In reference to these drawings the two plates or sheets (T1, T2) may be in aluminium two mm thick and  
5 assembled by threaded brackets (E) and screws (V).

One of two plates or sheets (T1) comprises, before being folded, two edges cut in a straight way and two edges cut in a curved way (C) in a semi-circle. This plate or sheet (T1) has holes made in eight places to  
10 accommodate eight screws (V) which will hold eight threaded brackets (E).

This plate or sheet (T1) is then folded at its centre. The fold (P) obtained forms an arc of a circle.

The second plate or sheet (T2) comprises, before  
15 being folded, two edges cut in a straight way.

This plate or sheet (T2) then has holes made in it in eight places to accommodate eight screws (V) which will hold the eight threaded brackets (E).

This plate or sheet (T2) is then folded at its  
20 centre. The fold (P) obtained forms an arc of a circle of sufficient dimensions to surround the two edges cut in a curved way (C) on the other plate or sheet (T1) when the two plates or sheets (T1, T2) are assembled and held together by the eight threaded brackets (E) and the  
25 sixteen screws (V).

A fitting made of flexible material may be provided to surround the edge of the second plate or sheet (T2).

This box is particularly designed to accommodate small and medium-sized electronic, electrical and  
30 mechanical systems.